420-231

MEASURE and CONTROL

JUL 3 1975
GROUP 170

LEVEL | DENSITY | MOISTURE

of SOLUTION · SLURRIES · BULK PRODUCTS with

KAY-RAY INC.

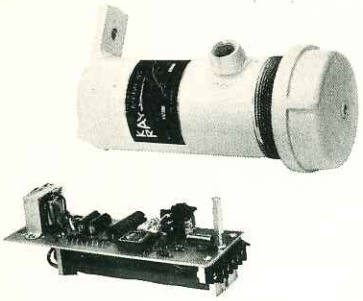
INDUSTRIAL PROCESS CONTROL EQUIPMENT

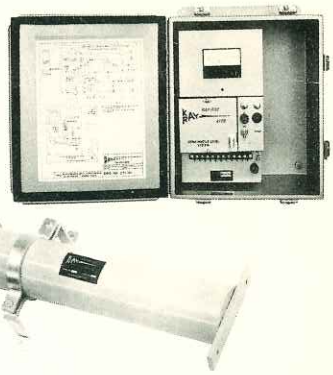
LEVEL

- Continuous
- High-Low limit
- Interface

LEVEL SYSTEMS

For measurement on:
Tanks, Vessels, Silos, Bins, Chutes and other containers





SINGLE POINT LEVEL SYSTEM

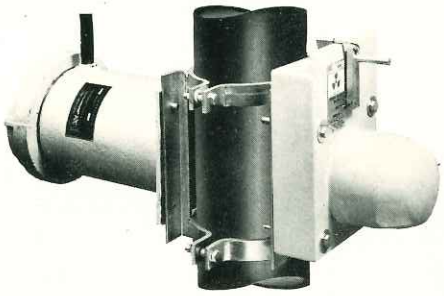
CONTINUOUS LEVEL SYSTEM

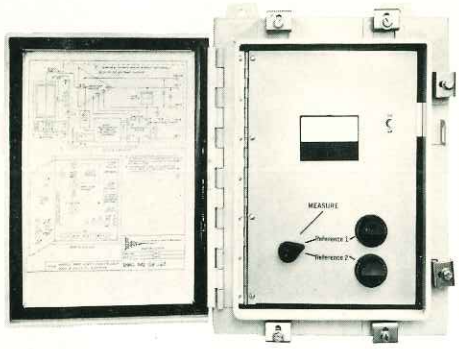
DENSITY

- Specific Gravity
- Percent solids
- Concentrations
- Bulk density
- Interface detection

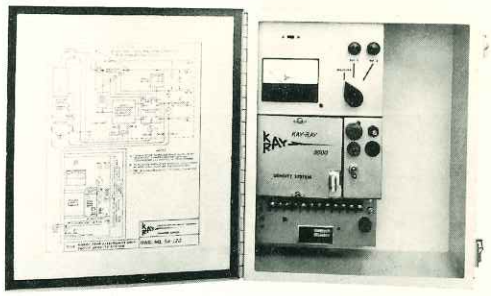
DENSITY SYSTEMS

For measurement on:
Pipes or Containers





Model 3500



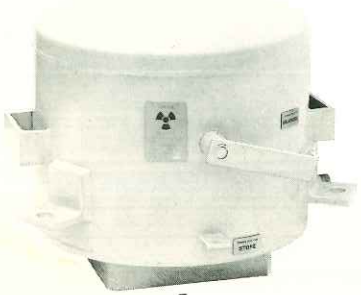
Model 3600

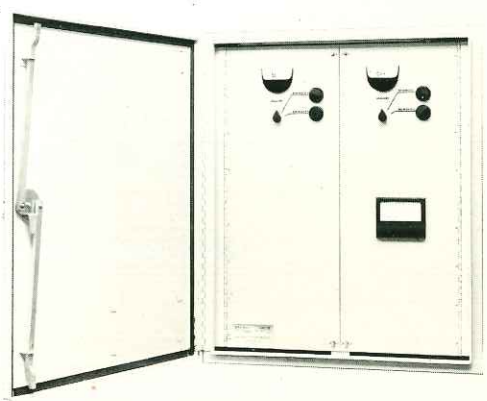
MOISTURE

- Powdered
- Granular
- Pelletized
- Crushed
- Bulk products

MOISTURE SYSTEMS

For measurement on:
Hoppers, Bins, Chutes and Belts.





APPLICATIONS

CHEMICAL:
Polymerization Control

MINING:
Primary Crusher

PAPER:
Chip level in continuous digester

STEEL:
Continuous Casting

FOUNDRY:
Cupola Scrap Level

CEMENT:
Clinker level in cooler

POWER:
Coal flow interruption to boiler

PETROLEUM:
Coker froth and bed

GLASS:
Head—molding machine

CEMENT:
Raw feed slurry solids control
Kiln feed mass flow control
Dust leaching process

MINING:
Ball mill feed control
Thickener underflow
Filter feed
Heavy media separation
Mass flow monitoring

PAPER:
Green liquor concentration
White liquor clarifier
Starch sizing
Lime mud feed
Coatings solids makeup

PETROLEUM:
Acid recovery
Interface detection
Mudding control
Mixing

CHEMICAL:
Blending
Extraction
Polymerization
Spray drier feed control
Foaming control

FOOD:
Percent solids
Distillery evaporator
Air inclusion
Percent concentration
Continuous cooking

POLLUTION:
Sewage treatment
Industrial waste
Thickener underflow

STEEL:
Bulk density of coal
Pollution control

AND OTHERS,
Solids control in dredging
Weight control in packaging
Bulk density of solids
Solids control in clay processing

STEEL:
Control coke charge to blast furnace on a dry weight basis
Control moisture content of the green sinter mix at the balling drum

MINING:
Control moisture content of ore concentrate at the pelletizer
Control rotary drier in iron, copper, and phosphate ore processing

AND OTHERS:
- Lead ore sinter mix
- Foundry sand
- Phosphate Matrix

PAPER:
Wood chips

CHEMICAL:
Carbon black

ALUMINUM:
Bauxite
Alumina

FOUNDRY:
Foundry sand

KAY-RAY INC.

KAY-RAY INDUSTRIAL PROCESS CONTROL EQUIPMENT

FEATURES

Non-contacting measurement

No internal probes

Readings are not affected by product temperature viscosity or pressure

Continuous on stream measurement

Ideal for interface with computers and other process control systems

Permanent calibration

Fast response time—one second

High accuracy

Low maintenance

Simple installation

Complete solid state electronics

Modular construction

Weatherproof and dust proof

OUR RESPONSIBILITY TO YOU:

Kay-Ray provides years of experience in the design and application of nuclear gauging equipment to industry. The wide acceptance of Kay-Ray gauges throughout industry is a measure of our success. We believe it is a direct result of marketing our product not as hardware but as a system. Our responsibility does not cease with supplying a reliable functional gauge. This merely is a necessary starting point. It continues on through complete satisfaction with the installation and performance of the system in the application. This is perhaps best exemplified in the wording of our "Performance Guarantee."

Our conviction, based on many years experience in the industrial gauging field, allows Kay-Ray to guarantee performance of their equipment in your application. For us to provide this assurance, it is necessary when purchasing the equipment, that the application be completely described on our Application Data Form for our quotation on a guaranteed performance basis. This means that if the Kay-Ray equipment does not perform according to our quotation, we will accept its return for full credit within the prespecified period subject to our field inspection.

IF

Your interest indicates a present or future need to resolve density, level or moisture related problems, Kay-Ray local or factory assistance is as available as your phone. Please call or write today.

KAY-RAY INC.

INDUSTRIAL PROCESS CONTROL EQUIPMENT

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